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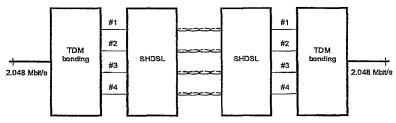
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(54) Title: INVERSE MULTIPLEXER WITH TDM BONDING



TDM bonding frame 512 + 64 = 576 kbit/s

(57) Abstract: The present invention discloses one or more network components within a telecommunication network wherein said network is a serial bitstream network and the network components are comprising one or more inverse multiplexers, wherein said multiplexer(s) is/are TDM bonding multiplexers and said multiplexer(s) utilize(s) spare bits and/or FAS bits in a protocol for control of specific functions of the inverse multiplexer(s). The invention further includes a method for

inverse multiplexing of one or more serial bitstreams within a telecommunication network wherein said method uses spare bit and/or frame alignment signals from a protocol to: measure differential delay between transmission lines at the receiving end, and/or secure timeslot integrity by compensation for individual link delay, and/or secure correct transmitter and receiver timeslot sequence by link identification, and/or monitor channel availability by block error checking.



